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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,155	09/15/2003	Phillip Dan Cook	ISIS-5246	2151
32650	7590 03/30/2006		EXAMINER	
WOODCOCK WASHBURN LLP			KHARE, DEVESH	
-	'Y PLACE - 46TH FLOOR HIA, PA 19103		ART UNIT PAPER NUMBER	
• • • • • • • • • • • • • • • • • • • •	, ,		1623	
			DATE MAIL ED. 02/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/663,155	COOK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Devesh Khare	1623				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	n the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 66(a). In no event, however, may a re- rill apply and will expire SIX (6) MONT cause the application to become ABA	ATION. Oly be timely filed HS from the mailing date of this control NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 07 No	ovember 2005					
	action is non-final.					
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>15-17,19,20 and 22-25</u> is/are pending	in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-17,19,20 and 22-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
· <u> </u>	☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement.					
, , , , , , , , , , , , , , , , , , ,	ologion requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list	of the certified copies not r	eceived.				
Attachment(s)	<u>"</u> П	(DTO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) ☐ Notice of Dialisperson's Patent Diawing Review (F10-945) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 08/17/05; 11/07/05.		ormal Patent Application (PTC)-152)			

Applicant's amendments and remarks filed on 11/07//2005 are acknowledged. Claims 18 and 21 have been. Claims 15,16,17,19 and 20 have been amended. New claims 22-25 have been added.

The rejection of claims 15-17 under 102(b) as being anticipated by Miller et al., of the Office Action mailed on 05/06/2005, has been overcome through applicants' amendments. The rejection of claims 19 and 20 under 102(b) as being anticipated by Sproat et al., of the Office Action mailed on 05/06/2005, has been withdrawn in view of applicants' remarks stating that the Sproat reference has a publication date of Feb. 25,1991 and the parent application (S/N: 07/967,267) to the present one, accorded a priority date of Aug. 13,1990.

Claims 15-17, 19,20 and 22-25 are currently pending in this application.

During the course of reconsideration of the application, a prior art reference not previously disclosed by the applicants or the examiner came to light (see rejection below).

Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claims 15,19 and 22 contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Either one of T_3 and T_5 substituents are either a hydroxyl blocking group, phosphate or an activated phosphate group and the other of T_3 and T_5

is a nucleotide or both T_3 and T_5 are nucleotides in claims 15, 19 and 22 do not have adequate support in the specification.

Obviousness-type Double Patenting Rejection

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 15-17, 19,20 and 22-25 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 11-21 of U.S. Patent No. 5,514,786 ('786) and applicant's other U.S. Patents of same scope as following:

Claims 1-20 of 5,602,240

Claims 1-29 of 5,610,289

Claims 1-16 of 5,489,677

Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in each of the application and the '786 patent are

directed to substantially the same subject matter, i.e., in the instant claims, the invention is claimed in terms of purine 2'-O-alkyloligonucleotide represented by the general formula (I) of claims 15, 19 and 22 wherein the "X" substituent is alkyl, alkenyl or alkynyl of the carbon chain length between C1-C20, while in the '786 patent it is claimed in terms of 2'-O-alkyloligonucleotide wherein the "X" substituent is alkyl, alkenyl or alkynyl and base moiety is a heterocyclic base. The said base moiety is an adenine or guanine (col.20, lines 55-60). It would have been obvious to one having ordinary skill in this art, at the time the claimed invention was made to have synthesized 2'-O-alkyloligonucleotide of the '786 patent which have the same use and effect. One having ordinary skill in the art would have been motivated, to have synthesized 2'-O-alkyloligonucleotide of the '786, which have the same use and affect.

The examiner notes the instant claims; the '786 patent and said U.S. Patents of applicants do indeed substantially overlap therefore this obviousness-type double patenting rejection is necessary to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees.

Therefore the claims are co-extensive.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22,24 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Miller et al (see Office Action dated 05/06/2005).

The applicants' claims are directed toward purine 2'-O-alkyloligonucleotide wherein purine moiety is guanine and the "X" substituent is C₁-C₂₀ alkyl.

Miller et al. anticipates the claims as it teaches guanosine 2'-O-methyloligonucleotide (page 1988, 2nd col., middle para.).

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Devesh Khare whose telephone number is (571)272-0653. The examiner can normally be reached on Monday to Friday from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anna Jiang, Supervisory Patent Examiner, Art Unit 1623 can be reached at (571)272-0627. The official fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-4556 or 308-4242. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Devesh Khare, Ph.D.,J.D. Art Unit 1623 March 22, 2006

Supervisory Patent Examiner Technology Center 1600